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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,535	02/10/2004	Jae-Sung Lee	61610115US	3220
58027	7590	12/29/2005	EXAMINER	
H.C. PARK & ASSOCIATES, PLC 8500 LEESBURG PIKE SUITE 7500 VIENNA, VA 22182			AL NAZER, LEITH A	
			ART UNIT	PAPER NUMBER
			2821	

DATE MAILED: 12/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/774,535	<b>Applicant(s)</b> LEE ET AL.	
	<b>Examiner</b> Leith A. Al-Nazer	<b>Art Unit</b> 2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 14 October 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3,7-9,11 and 15 is/are rejected.
- 7) ☒ Claim(s) 2,4-6,10 and 12-14 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 October 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3, 7-9, 11, and 15 rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,121,950 to Zavracky et al.

With respect to claims 1 and 3, Zavracky teaches an image display, comprising: a display panel including a plurality of pixels arranged in a matrix pattern (90), a plurality of first electrodes (1065) individually formed corresponding to the pixels, a second electrode (1085) formed in common with the first electrodes, a plurality of light emitting elements provided between the first electrode and the second electrode and including a light emitting layer (column 14, line 47 – column 15, lines 37), and a plurality of transistors (column 14, lines 47-55) provided corresponding to the pixels and connected between the first electrodes and a power supply voltage line (161) for controlling the current supply to the EL elements; a scan driver (130a and 130b) for sequentially selecting respective pixel lines; a data driver (122, 159a, and 159b) for applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected; and a display controller (150) for using a current value (181 and 183) fed back by the second electrode of the display panel and externally input RGB data (Red

1, Green 2, and Blue 3 in figure 1; 141 in figure 4) to correct a white gray level of the RGB data and generate RGB display data, and for providing the generated RGB display data to the data driver, wherein the display controller determines an amount of emitted light on the corresponding screen according to the fed back current to generate a brightness control reference signal corresponding to the amount of emitted light, and controls the white gray level of the RGB data according to the brightness control reference signal to control the brightness of the display panel (column 10, lines 25-65; column 13, lines 20-30).

With respect to claim 7, Zavracky teaches an image display, comprising: a display panel including a plurality of pixels arranged in a matrix pattern (90), a plurality of first electrodes (1065) individually formed corresponding to the pixels, a plurality of second electrodes (1085) commonly formed for a plurality of groups defined by defining the first electrodes as the groups, a plurality of light emitting elements provided between the first electrode and the second electrode and including a light emitting layer (column 14, line 47 – column 15, line 37), and a plurality of transistors (column 14, lines 47-55) provided corresponding to the pixels and connected between the first electrodes and a power supply voltage line (161) for controlling the current supply to the EL elements; a scan driver (130a and 130b) for sequentially selecting respective pixel lines; a data driver (122, 159a, and 159b) for applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected; and a display controller (150) for using a current value (181) fed back by at least one second electrode of the display panel and externally input RGB data (141) to correct a white

gray level of the RGB data and to generate RGB display data, and for providing the generated RGB display data to the data driver (figures 1 and 4), wherein the display controller determines an amount of emitted light on the corresponding screen according to the fed back current to generate a brightness control reference signal corresponding to the amount of emitted light, and controls the white gray level of the RGB data according to the brightness control reference signal to control the brightness of the display panel (column 10, lines 25-65; column 13, lines 20-30).

With respect to claim 8, Zavracky teaches a method for driving an image display, comprising: sequentially selecting respective pixel lines; applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected (figure 1); and using a current value (183) fed back by the second electrode of the display panel and externally input RGB data (141) to correct a white gray level of the RGB data and generate RGB display data, and to provide the generated RGB display data to a data driver (159a and 159b).

With respect to claims 9 and 11, Zavracky teaches an image display, comprising: a display panel including a plurality of pixels arranged in a matrix pattern (90); a scan driver (130a and 130b) for sequentially selecting respective pixel lines; a data driver (122, 159a, and 159b) for applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected; and a display controller (150) for using a current value (181 and 183) fed back by the display panel and externally input RGB data (Red 1, Green 2, and Blue 3 in figure 1; 141 in figure 4) to correct a white gray level of the RGB data and generate RGB display data, and for providing the

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generated RGB display data to the data driver, wherein the display controller determines an amount of emitted light on the corresponding screen according to the fed back current to generate a brightness control reference signal corresponding to the amount of emitted light, and controls the white gray level of the RGB data according to the brightness control reference signal to control the brightness of the display panel (column 10, lines 25-65; column 13, lines 20-30).

With respect to claim 15, Zavracky teaches a method for driving an image display, comprising: sequentially selecting respective pixel lines; applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected (figure 1); and using a current value (183) fed back by a display panel and externally input RGB data (141) to correct a white gray level of the RGB data and generate RGB display data, and to provide the generated RGB display data to a data driver (159a and 159b).

### ***Allowable Subject Matter***

3. Claims 2, 4-6, 10, and 12-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach or suggest one or more of the limitations found in dependent claims 2 and 10. Specifically, the prior art of record fails to teach or suggest the display controller comprising the combination of a current voltage converter, an operation controller, and a data voltage ratio controller.

### ***Response to Arguments***

5. Applicant's arguments filed 14 October 2005 have been fully considered but they are not persuasive.

Applicant argues that the rejection is in error because the signals outputted from the light meter 180 of Zavracky and from the temperature measurer 170 of Zavracky do not originate from a display panel electrode, but rather from light sensors 94 and temperature sensors 92 that are embedded in the active matrix 23 of the LCD.

Examiner agrees. However, independent claims 1, 7, and 8 of the present application simply recite a current value fed back by the second electrode of the display panel.

Therefore, the claim language is ambiguous as to whether the signal is fed back *directly* from the second electrode of the display panel. As a result, the rejection under 35

U.S.C. 102(b), as outlined above, is proper as the light meter and temperature measurer of Zavracky are in the vicinity of the second electrode and/or can act as intermediate electronics between the second electrode and the display controller.

Similar arguments hold for newly added independent claims 9 and 12.

***Conclusion***

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

***Communication Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leith A. Al-Nazer whose telephone number is 571-272-1938. The examiner can normally be reached on Monday-Friday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

LA

A handwritten signature in black ink, appearing to read "V. Woodhull", with a long horizontal line extending to the right.